

TES4-J05-0489-B1-0001 [REDACTED]

169811

Mr. Jack Jojokian, Project Officer
U.S. Environmental Protection Agency
401 M Street, S.W., Room 2834B
Washington, D.C. 20460

Re: Contract No. 68-01-7351
Project No. 05-B489-00
Work Assignment No. 489
Sauget Sites
Technical Review of Documents
Region V

Dear Mr. Jojokian:

In accordance with Article B.2, Paragraph (c) of the referenced contract, attached for your review and approval are the work plan and cost estimate for Work Assignment No. 489. This work assignment will be under the direction of Dean Geers, Region V Manager, who can be reached at (312) 648-0002.

Please contact me or Dean for further clarification or discussion as required.

Very truly yours,

[REDACTED]
Program Manager

Enclosures

cc: R. Hackett, EPA Contracting Officer
C. Liszewski, EPA Regional Contact
D. Favero, EPA Primary Contact
[REDACTED], JEG Regional Manager
[REDACTED], JEG Deputy Project Officer
[REDACTED]

Life Systems, Inc.

TES4 105 0489

5-000

24755 HIGHPOINT ROAD • CLEVELAND, OHIO 44122 • PHONE: 216 464-3291

September 3, 1987
JSH-9-2

Jacobs Engineering Group, Inc.
222 S. Riverside Plaza
Suite 1870
Chicago, IL 60606

Attention: Mr. Dean Geers
Regional Manager

Subject: Work Assignment Plan: TR-913-3-32

References: 1. Subcontract No. 05-A005-S-87-0006 to Prime Contract
No. 68-01-7351, "Technical Enforcement Support for Hazardous
Waste Sites (TES IV)"
2. JEG WA No. 489: Review of Documents, Sauget Sites; ICAIR WA
No. 361462

Dear Mr. Geers:

The subject Work Assignment (WA) Plan is enclosed for your review and approval.

We have priced this WA to fit the overall cost model. The overall cost is [REDACTED]; the cost of [REDACTED]. Planning assumptions influencing the cost estimate appear in Section 2.0 of the WA Plan. Details of our approach were discussed with the EPA Primary Contact. We will begin implementation immediately.

If you have any questions or comments, please do not hesitate to contact me at (216) 464-3291.

RECEIVED
REGION V

SEP 04 1987

Very truly yours,

LIFE SYSTEMS, INC.

[REDACTED]
Program Manager

JSH/jep

Encl.

cc: [REDACTED] (w/Encl.)
Project Manager (361462)
Contract Administration (1462)

Submitted to:

Jacobs Engineering Group, Inc.
222 S. Riverside Plaza
Suite 1870
Chicago, IL 60606

Attention: Subcontract Administrator, W. O. Parks (1 copy)
Regional Manager (Region V), D. Geers (1 copy)

TR-913-3-36

TECHNICAL REVIEW OF DOCUMENTS FOR THE SAUGET SITES

Work Assignment Plan

Prepared Under

Program No. 1462

for

Subcontract No. 05-A005-S-87-0006

Under

Contract No. 68-01-7351

for

ICAIR Work Assignment No. 361462

JEG Work Assignment No. 489

September 4, 1987

Approved:


Mr. Jeffrey S. Heaton, Program Manager


Dr. Roy H. Reuter, Contract Administrator

"This document contains Confidential Business Information as
defined in The Freedom of Information Act of 1974."

U.S. ENVIRONMENTAL PROTECTION AGENCY
TECHNICAL ENFORCEMENT SUPPORT AT
HAZARDOUS WASTE SITES

TES IV
CONTRACT NO. 68-01-7351
WORK ASSIGNMENT NO. 489

SUAGET SITES
SAUGET, ILLINOIS

TECHNICAL REVIEW OF DOCUMENTS
EPA REGION V

JACOBS ENGINEERING GROUP INC.
PROJECT NUMBER: 05-B489-00

SEPTEMBER 1987

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EXHIBIT 2-A	- OTHER DIRECT COSTS - JACOBS (FY 88)
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EXHIBIT 4-A	- OTHER DIRECT COSTS -ICAIR (FY 88)

1.0 INTRODUCTION

1.1 Background

This Work Assignment (WA) Plan describes the proposed technical effort and estimated cost for WA 489 under Subcontract No. 05-A005-S-87-0006 to Contract No. 68-01-7351, "Technical Enforcement Support at Hazardous Waste Sites (TES IV)."

The Sauget, Illinois area is a heavily industrialized area in southwest Illinois, just across the Mississippi River from St. Louis, Missouri. There has been widespread ground-water contamination documented in the area as well as certain specific hazardous waste disposal sites identified.

The U.S. Environmental Protection Agency (USEPA) has signed an action memo to undertake an emergency response at one location called Area G. A potentially responsible party (PRP), Monsanto, restricted access to the site by constructing a fence. Additional emergency actions may be necessary.

Monsanto and the Sauget Sanitary Development and Research Association (SSDRA) have performed ground-water and source material investigations for the respective facilities. The Illinois EPA has performed ground-water studies in the Dead Creek area and is performing additional studies in the Sauget area.

1.2 Purpose

The purpose of this WA is to provide tabulation of the ground-water monitoring and source material data and expert review of the conclusions and recommendations of the various reports concerning the Sauget disposal sites.

2.0 PROJECT APPROACH

The contractor's approach^(a) to implementing this WA is designed to provide EPA with a concise, accurate analysis of the status of the sites so that further response strategies can be effectively planned and implemented. Upon receipt of the available background data from EPA Region V, the contractor will prepare a presentation package (approximately ten pages) highlighting the site chronology, status of on-going activities and areas of concern to be addressed. This package will be designed as a briefing for Regional EPA management in advance of more detailed analyses.

Concurrently, the contractor will develop a project plan (approximately five pages in length) detailing the specific approach to this WA. This will include an outline of the major deliverable and anticipated formats for

(a) Details of this approach were discussed and approved in a telephone conversation on August 28, 1987 between the EPA Primary Contact, Mr. David Favero and Mr. Jeffrey Heaton and Ms. Jo Ann Duchene of ICAIR, Life Systems, Inc.

figures and tables to be generated in the report. Approximately 20 figures and tables are assumed. Comments on the project plan will be received approximately two weeks after submission at a one-day meeting to be scheduled between the EPA Region V Primary Contact, contractor Project Manager and technical performer. After the comment meeting and during the same trip, travel to the site and to the Illinois EPA (Springfield, IL) will complete the site background data retrieval and collection phases. It is assumed that approximately 300 pages of background data will be collected and reviewed.

The major deliverable will be a report summarizing the ground-water monitoring and source material data. This report will concisely summarize past and on-going activities at the sites. Emphasis will be placed on presenting the data in both graphic and tabular formats. Using the expertise of a staff geohydrologist, the report will evaluate conclusions and recommendations discussed in site reports and identify any data gaps. It is estimated that the report will contain 20 pages of text (not including tables and figures). Comments on this report will be received at a one-day meeting at Region V with the EPA Primary Contact and the contractor Project and Program Managers. A final version of the report incorporating the review comments will then be submitted.

Other support activities for the sites will be performed upon technical direction furnished by the EPA Primary Contact. These are expected to include (but not be limited to):

- o Summarization and evaluation of 104(e) letters sent to PRPs
- o Field oversight (including split sampling)
- o Review of additional documents with submission of letter reports
- o Attendance at project meetings

A total of 95 LOE hours have been estimated for these tasks (designated as Task 5.0 and 6.0 in the WA). Further technical support beyond this level may require a WA amendment.

Task

1.0 Prepare Project Plan

- 1.1 Review preliminary data.
- 1.2 Submit presentation package.
- 1.3 Prepare and submit project plan.
- 1.4 Receive comments on project plan.

2.0 Gather Site Data

- 2.1 Locate and copy additional data at Region V.
- 2.2 Locate and copy background data from Illinois EPA headquarters and regional office.

3.0 Arrange and Participate in Site Visit in the Sauget Area in Conjunction with the EPA Primary Contract.

4.0 Prepare Ground-Water Site Report

- 4.1 Assess data to determine soundness of conclusions/recommendations and identify data gaps.
- 4.2 Submit complete report including tables, figures, graphs.
- 4.3 Receive comments on report.
- 4.4 Revise report according to comments, resubmit.

5.0 Prepare PRP summaries

- 5.1 Tabulate information received in response to 104(e) letters.
- 5.2 Perform follow-up investigation as requested.
- 5.3 Submit reports as required.

6.0 Provide Further Technical Support As Requested

- 6.1 Perform additional technical reviews and letter reports.
- 6.2 Provide oversight (field, etc.).
- 6.3 Attend project meetings.

7.0 WA Data Management and Documentation

8.0 WA Management and Administration

3.0 DELIVERABLES

The deliverables required under this WA are:

- Presentation Package (September 30, 1987)
- Project Plan (October 16, 1987)
- Draft Ground-Water Site Report (November 13, 1987)
- Final Ground-Water Site Report (December 18, 1987)

Remaining deliverables will be scheduled as they are requested by the EPA Primary Contact.

4.0 WORK SCHEDULE

The period of performance of this WA is thirteen months, from August 27, 1987 through September 30, 1988. This includes one month in the base year and 12 months in the option year.

Milestones established for this WA are listed below according to milestone number. This represents the contractor's estimate for the WA schedule. Technical direction may change these interim milestones but they may not extend past the prevailing Contract completion date (September 30, 1989), without additional Contracting Officer authorization.

No.	Description	Completion Date
1	Receive preliminary data from Primary Contact	09/04/87 ^(a)
2	Submit presentation package	09/30/87
3	Receive WA Plan approval	10/12/87 ^(a)
4	Submit Project Plan	10/16/87
5	Receive comments on Project Plan	10/28/87 ^(a)
6	Conduct visit to site and Illinois EPA	10/29-30/87
7	Submit draft Ground-Water Report	11/13/87
8	Receive comments on Report	11/27/87 ^(a)
9	Submit final Ground-Water Report	12/18/87
10	Provide further technical assistance	12/87-09/88

5.0 PERSONNEL

The following identifies individuals and their roles in the performance of this WA:

[REDACTED]
Regional Manager
Jacobs Engineering Group
(312) 806-9119

[REDACTED]
Program Manager
Life Systems, Inc.
(216) 464-3291

6.0 INTERVIEWS/SUBCONTRACTORS/CONSULTANTS

ICAIR, Life Systems, Inc., subcontractor to Jacobs Engineering Group, Inc. (JEG), will be utilized to perform the document review.

It is not possible at this time to identify specific consultants who may be utilized by Life Systems. At such time as any are identified, ICAIR will inform JEG of the names of the consultants.

7.0 EXCEPTIONS TO THE ASSIGNMENT, ANTICIPATED PROBLEMS, SPECIAL REQUIREMENTS

The scope of this WA has been discussed with the EPA Primary Contact.^(b) The need for a presentation package prior to the end of the fiscal year was deemed

- (a) EPA/JEG milestones that trigger performance of subsequent tasks. If modifications to these milestones should occur, a day-for-day slippage in subsequent milestones is assumed.
- (b) Details of this approach were discussed and approved in a telephone conversation on August 28, 1987 between the EPA Primary Contact, Mr. David Favero and Mr. Jeffrey Heaton and Ms. Jo Ann Duchene of ICAIR, Life Systems, Inc.

the most important aspect of the WA that needed to be completed during the base year. Accordingly, the schedule presented in this plan differs somewhat than that detailed in the WA.

This plan is based within the hours estimate provided by EPA for the WA. Hours for individual tasks in the WA Scope of Work (SOW) were independently estimated. Contractor estimates differ from those in the WA. Assumptions developed in scoping the assignment (Section 2.0) have been used to define these tasks. No other problems are anticipated in completing this assignment.

Approval of this WA Plan is required by October 12, 1987. If WA Plan approval is not received by that date, Subcontract No. 05-A005-S-87-0006, Article IX - Work Assignments, requires that the Subcontractor stop work until such WA Plan approval is received.

8.0 QUALITY ASSURANCE

The JEG Quality Assurance (QA) Program Plan has been specifically incorporated by reference into the Contract governing this WA. This Work Plan and all subsequent activities and outputs may correspondingly be the subject of a random audit pursuant to that QA program plan and carried out by the Contract QA Officer. The audit results and any corrective action will be included in the Monthly Progress Report and Annual Report.

9.0 CONFLICT OF INTEREST

To the best of our knowledge, no personal or corporate conflict of interest exists for the performance of work under this WA. If either is discovered during the progress of this WA, the Contract Specialist will be notified.

10.0 COST ESTIMATE

See relevant exhibits.

**JACOBS ENGINEERING GROUP INC.**
ENVIRONMENTAL SYSTEMS DIVISION

TES4 105-489-81-0002

1042 NATIONAL PRESS BUILDING - 529 14TH STREET, N.W. • WASHINGTON, D.C. 20045 • (202) 628-1903

July 14, 1988

Mr. Jack Jojokian, Project Officer
U.S. Environmental Protection Agency
Room 2834B
401 M Street, S.W.
Washington, D.C. 20460

**RECEIVED
REGION V**

Re: Prime Contract No. 68-01-7351
Project No. 05-B489-00
Work Assignment No. 489
Sauget Sites
Sauget, Illinois
CERCLA
Region V


JUL 15 1988

Dear Mr. Jojokian:

In accordance with Article B.2, Paragraph (c) of the referenced contract, enclosed for your review and approval are the revised work plan and cost estimates for Work Assignment No. 489, Amendment No. 3. This work assignment will be under the direction of Dean Geers, Region V Manager, who can be reached at (312) 648-0002.

Please contact either Dean or me for further clarification or discussion as required.

Very truly yours,


Roger L. Williams
Program Manager

RLW/ol

Enclosures

cc: R. Hackett, EPA Contracting Officer
E. Howard, EPA Regional Contact
G. Addison, EPA Primary Contact
D. Geers, JEG Region V Manager

**ENVIRONMENTAL PROTECTION AGENCY
TECHNICAL ENFORCEMENT SUPPORT
AT
HAZARDOUS WASTE SITES**

**TES IV
CONTRACT NO. 68-01-7351
WORK ASSIGNMENT NO. 489**

**TECHNICAL REVIEW OF DOCUMENTS
FOR
THE SAUGET SITES
SAUGET, ILLINOIS**

U.S. EPA REGION V

**JACOBS ENGINEERING GROUP INC.
PROJECT NO. 05-B489-00**

**PREPARED BY
ICAIR LIFE SYSTEMS**

**REVISED
JULY 1988**

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EXHIBITS

EXHIBIT 1 - COST AND LABOR SUMMARY - JACOBS (FY 88)

EXHIBIT 2 - OTHER DIRECT COSTS - JACOBS (FY 88)

EXHIBIT 3 - COST AND LABOR SUMMARY - LIFE SYSTEMS (FY 88)

EXHIBIT 4 - TRAVEL COSTS - LIFE SYSTEMS (FY 88)

EXHIBIT 5 - OTHER DIRECT COSTS - LIFE SYSTEMS (FY 88)

1.0 INTRODUCTION

1.1 Background

This Revised Work Assignment (WA) Plan describes the proposed technical effort and estimated cost for WA 489 under Subcontract No. 05-A005-S-87-0006 to Contract No. 68-01-7351, "Technical Enforcement Support at Hazardous Waste Sites (TES IV)." A

This Revised WA Plan is submitted in response to EPA Amendment No. 3 dated June 21, 1988, and it addresses the additional technical effort necessary to complete the remaining tasks. Changes from the original WA Plan are indicated in the right-hand margin with a vertical line and the letter "A." Completed tasks are indicated in the left-hand margin with the notation "COMPLETED." A

The Sauget, Illinois area is a heavily industrialized area in southwest Illinois, just across the Mississippi River from St. Louis, Missouri. There has been widespread ground-water contamination documented in the area as well as certain specific hazardous waste disposal sites identified.

The U.S. Environmental Protection Agency (USEPA) has signed an action memo to undertake an emergency response at one location called Area G. A potentially responsible party (PRP), Monsanto, restricted access to the site by constructing a fence. Additional emergency actions may be necessary.

Monsanto and the Sauget Sanitary Development and Research Association (SSDRA) have performed ground-water and source material investigations for the respective facilities. The Illinois EPA has performed ground-water studies in the Dead Creek area and is performing additional studies in the Sauget area.

1.2 Purpose

The purpose of this WA is to provide tabulation of the ground-water monitoring and source material data and expert review of the conclusions and recommendations of the various reports concerning the Sauget disposal sites.

2.0 PROJECT APPROACH

The contractor's approach^(a) to implementing this WA is designed to provide EPA with a concise, accurate analysis of the status of the sites so that further response strategies can be effectively planned and implemented. Upon receipt of the available background data from EPA Region V, the contractor will prepare a presentation package (approximately ten pages) highlighting the site chronology, status of on-going activities and areas of concern to be addressed. This package will be designed as a briefing for Regional EPA management in advance of more detailed analyses.

(a) Details of this approach were discussed and approved in a telephone conversation on August 28, 1987 between the EPA Primary Contact, Mr. David Favero and Mr. Jeffrey Heaton and Ms. Jo Ann Duchene of ICAIR, Life Systems, Inc.

Concurrently, the contractor will develop a project plan (approximately five pages in length) detailing the specific approach to this WA. This will include an outline of the major deliverable and anticipated formats for

figures and tables to be generated in the report. Approximately 20 figures and tables are assumed. Comments on the project plan will be received approximately two weeks after submission at a one-day meeting to be scheduled between the EPA Region V Primary Contact, contractor Project Manager and technical performer. After the comment meeting and during the same trip, travel to the site and to the Illinois EPA (Springfield, IL) will complete the site background data retrieval and collection phases. It is assumed that approximately 2,500 pages of background data will be collected and reviewed. | A

The major deliverable will be a report summarizing the ground-water monitoring and source material data. This report will concisely summarize past and on-going activities at the sites. Emphasis will be placed on presenting the data in both graphic and tabular formats. Using the expertise of a senior geohydrologist, the report will evaluate conclusions and recommendations discussed in site reports and identify any data gaps. It is estimated that the report will contain 30 pages of text (not including tables and figures). | A
Comments on this report will be received at a one-day meeting at Region V with the EPA Primary Contact and the contractor Project and Program Managers. A final version of the report incorporating the review comments will then be submitted. | A

Other support activities for the sites will be performed upon technical direction furnished by the EPA Primary Contact. These are expected to include (but not be limited to):

- Summarization and evaluation of 104(e) letters sent to PRPs
- Field oversight (including split sampling)
- Review of additional documents with submission of letter reports
- Attendance at project meetings

A total of 80 LOE hours have been estimated for these tasks (designated as Task 5.0 and 6.0 in the WA). Further technical support beyond this level may require a WA amendment. | A

Task

COMPLETE 1.0 Prepare Project Plan

- 1.1 Review preliminary data.
- 1.2 Submit presentation package.
- 1.3 Prepare and submit project plan.
- 1.4 Receive comments on project plan.

COMPLETE 2.0 Gather Site Data

- 2.1 Locate and copy additional data at Region V.
- 2.2 Locate and copy background data from Illinois EPA headquarters and regional office.
- 2.3 Receive additional report from Illinois EPA. | A

COMPLETE 3.0 Arrange and Participate in Site Visit in the Sauget Area in Conjunction with the EPA Primary Contract.

4.0 Prepare Ground-Water Site Report

- 4.1 Assess data to determine soundness of conclusions/recommendations and identify data gaps.
- 4.2 Submit complete report including tables, figures, graphs.
- 4.3 Receive comments on report.
- 4.4 Revise report according to comments, resubmit.
- 4.5 Assess additional Illinois EPA document.
- 4.6 Compile raw data from additional document into tables and graphs.
- 4.7 Write additional sections for report.

A

5.0 Prepare PRP summaries

- 5.1 Tabulate information received in response to 104(e) letters.
- 5.2 Perform follow-up investigation as requested.
- 5.3 Submit reports as required.

6.0 Provide Further Technical Support As Requested

- 6.1 Perform additional technical reviews and letter reports.
- 6.2 Provide oversight (field, etc.).
- 6.3 Attend project meetings.

7.0 WA Data Management and Documentation

8.0 WA Management and Administration

- 8.1 Prepare Revised WA Plan.
- 8.2 Prepare Revised Cost Proposal.
- 8.3 Prepare Technical Assignment.
- 8.4 Coordinate with the Illinois EPA Contact.

A

3.0 DELIVERABLES

The deliverables required under this WA are:

- Presentation Package (November 30, 1987)
- Project Plan (December 18, 1987)
- Draft Ground-Water Site Report (July 11, 1988)
- Final Ground-Water Site Report (September 9, 1988)

A

Remaining deliverables will be scheduled as they are requested by the EPA Primary Contact.

4.0 WORK SCHEDULE

The period of performance of this WA is thirteen months, from August 27, 1987 through September 30, 1988. This includes one month in the base year and 12 months in the option year.

Milestones established for this WA are listed below according to milestone number. This represents the contractor's estimate for the WA schedule. Technical direction may change these interim milestones but they may not extend past the prevailing Contract completion date (September 30, 1989), without additional Contracting Officer authorization.

	No.	Description	Completion Date
COMPLETE	1	Receive preliminary data from Primary Contact	09/04/87 ^(a)
COMPLETE	2	Submit presentation package	11/30/87
COMPLETE	3	Receive WA Plan approval	10/12/87 ^(a)
COMPLETE	4	Submit Project Plan	12/18/87
COMPLETE	5	Receive comments on Project Plan	01/04/88 ^(a)
COMPLETE	6	Conduct visit to site and Illinois EPA	12/16/87
COMPLETE	7	Receive Illinois EPA Documents	04/01/88
	8	Submit draft Ground-Water Report	07/11/88
	9	Receive comments on Report	08/19/88 ^(a)
	10	Submit final Ground-Water Report	09/09/88
	11	Provide further technical assistance	09/30/88

5.0 PERSONNEL

The following identifies individuals and their roles in the performance of this WA:

[REDACTED]
Regional Manager
Jacobs Engineering Group
(312) 806-9119

[REDACTED]
Program Manager
Life Systems, Inc.
(216) 464-3291

6.0 INTERVIEWS/SUBCONTRACTORS/CONSULTANTS

ICAIR, Life Systems, Inc., subcontractor to Jacobs Engineering Group Inc. (JEG), will be utilized to perform the document review.

It is not possible at this time to identify specific consultants who may be utilized by Life Systems. At such time as any are identified, ICAIR will inform JEG of the names of the consultants.

7.0 EXCEPTIONS TO THE ASSIGNMENT, ANTICIPATED PROBLEMS, SPECIAL REQUIREMENTS

The scope of this WA has been discussed with the EPA Primary Contact.^(b) The need for a presentation package prior to the end of the fiscal year was deemed

- (a) EPA/JEG milestones that trigger performance of subsequent tasks. If modifications to these milestones should occur, a day-for-day slippage in subsequent milestones is assumed.
- (b) Details of this approach were discussed and approved in a telephone conversation on August 28, 1987 between the EPA Primary Contact, Mr. David Favero and Mr. Jeffrey Heaton and Ms. Jo Ann Duchene of ICAIR, Life Systems, Inc.

the most important aspect of the WA that needed to be completed during the base year. Accordingly, the schedule presented in this plan differs somewhat than that detailed in the WA.

This plan is based within the hours estimate provided by EPA for the WA. Hours for individual tasks in the WA Scope of Work (SOW) were independently estimated. Contractor estimates differ from those in the WA. Assumptions developed in scoping the assignment (Section 2.0) have been used to define these tasks. No other problems are anticipated in completing this assignment.

Approval of this Revised WA Plan is required by August 19, 1988. If WA Plan approval is not received by that date, Subcontract No. 05-A005-S-87-0006, Article IX - Work Assignments, requires that the Subcontractor stop work until such WA Plan approval is received. | A

8.0 QUALITY ASSURANCE

The JEG Quality Assurance (QA) Program Plan has been specifically incorporated by reference into the Contract governing this WA. This Work Plan and all subsequent activities and outputs may correspondingly be the subject of a random audit pursuant to that QA program plan and carried out by the Contract QA Officer. The audit results and any corrective action will be included in the Monthly Progress Report and Annual Report.)

9.0 CONFLICT OF INTEREST

To the best of our knowledge, no personal or corporate conflict of interest exists for the performance of work under this WA. If either is discovered during the progress of this WA, the Contract Specialist will be notified.

10.0 COST ESTIMATE

Costs for tracking budgets and preparing status reports are incurred by Jacobs for the duration of this assignment, until closed-out by U.S. EPA, regardless of the level of technical activities that occur.)